



Attorney Docket No. 1071.1044DC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Takatoshi HIROTA, et al.

Application No.: 10/674,476

Group Art Unit: 2879

Filed: October 1, 2003

Examiner: Ashok Patel

For: FLAT DISPLAY DEVICE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ Form PTO-1449.
- 1b. ☒ Copy(ies) of IDS citation(s), except for U.S. Patents and U.S. Patent Application publications for applications filed on or after June 30, 2003.
- 1c. ☐ English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.
- 1d. ☐ English language translation (complete, Abstract or relevant portion(s)) attached to non-English language publications as indicated on the attached Form PTO-1449.
- 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of non-English publications.
- 1f. ☐ List of Copending Applications (ATTACHMENT 1(f), hereto).
- 1g. ☐ List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).

2. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(b):

(Check either Item 2a or 2b or 2c or 2d)

- 2a. ☐ Within three months of the filing date of a national application;
- 2b. ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application.
- 2c. ☐ Before the mailing of a first Office Action on the merits; or
- 2d. ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.

3. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND
- (Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)*
- 3a. ☐ The § 1.97(e) Statement in Item 5 below is applicable; OR
- 3b. ☐ The \$180.00 fee set forth in 37 CFR § 1.17(p) is:
- ☐ enclosed.
- ☐ to be charged to Deposit Account No. 19-3935.
4. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND
- 4a. ☐ The § 1.97(e) Statement in Item 5 below is applicable; AND
- 4b. ☐ The \$180.00 fee set forth in 37 CFR § 1.17(p) is:
- ☐ enclosed.
- ☐ to be charged to Deposit Account No. 19-3935.
5. ☐ Statement under § 1.97(e) *(applicable if Item 3a or Item 4a is checked)*
- (Check either Item 5a or 5b)*
- 5a. ☐ In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- 5b. ☐ In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
6. ☐ This is a continuation/divisional/continuation-in-part application under 37 CFR § 1.53(b).
- (Check appropriate Items 6a and/or 6b)*
- 6a. ☐ Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. ___, filed on ___, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR § 1.98(d).
- 6b. ☐ Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. ___, filed on ___, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.

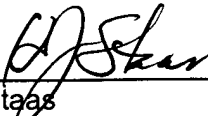
7. ☒ This is a Request for Continued Examination under 37 CFR § 1.114.
(Check either Item 7a or 7b)
- 7a. ☒ The Issue Fee has not been paid.
- 7b. ☐ A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently herewith or has been granted. A Request for Continued Examination under 37 CFR § 1.114, after payment of the Issue Fee, is proper in accordance with 37 CFR § 1.114(a), respectively.
8. ☐ This is a Supplemental Information Disclosure Statement.
(Check either Item 8a or 8b)
- 8a. ☐ This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on _____. A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on _____.
- 8b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §§ 1.97 and 1.98, mailed _____.
9. ☐ In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:
(Check appropriate Items 9a, 9b, 9c and/or 9d)
- 9a. ☐ satisfied for the non-English language publication(s) cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed., Rev. 2)
- 9b. ☐ set forth in the application.
- 9c. ☐ satisfied for the non-English language publication(s) indicated on the attached Form PTO-1449 as having an English language translation (complete or relevant portion(s)) attached thereto .
- 9d. ☐ enclosed as Attachment 1(e), hereto.
10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

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Sheet 1 of 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	ATTORNEY DOCKET NO.	APPLICATION NO.
	1071.1044DC	10/674,476
	FIRST NAMED INVENTOR	
	Takatoshi HIROTA, et al.	
	FILING DATE	GROUP ART UNIT
	October 1, 2003	2879

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	TRANSLATION YES NO		ABSTRACT
	AG						
	AH						
	AI						
	AJ						
	AK						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

					TRANSLATION YES NO	
	AL	K. Amemiya et al.; "Luminance Observed above the Anode electrode in Co-Planar Structure AC-PDP", ASIA Display '95, ASIA Display '95 meeting of SID (Society for Information Display), October 16-18, 1995, pp. 965-966				

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

**ATTACHMENT 1(e)**

EXPLANATIONS OF RELEVANCY OF REFERENCES	ATTORNEY DOCKET NO.	APPLICATION NO.
	1071.1044DC	10/674,476
	FIRST NAMED INVENTOR	
	Takatoshi HIROTA, et al.	
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Prior art statement**(1) "Printed Publication" as Prior Art**

Asia Display '95 is a "Printed Publication".

Asia Display '95 meeting of SID (Society for Information Display) was opened in October 16-18th, 1995 as written at the cover.

A paper of "Luminance Observed above the Anode Electrode in Co-Planner Structure ACPDP" was announced in public in the meeting on October 18, 1995 as written in the paper.

On the other hand, the present invention was filed in the U.S on June 3, 1997 and the priority date which is Japanese filing date is June 12, 1996. Accordingly, an art described in the paper is a prior art of the present invention,

(2) Prior art disclosed in the paper

The paper explains a result of an experiment regarding a reflecting type, surface discharge, color AC - PDP.

Though it is not explicitly shown, it is supposed that the PDP is a general type, three electrode structure.

It is written in the paper that enclosed discharge gas is a mixture gas of Ne and Xe and a mixture ratio of Xe in the mixture gas is 5 %.

Each spectrum of light emitted from the PDP is observed by the experiment.

That is, phosphor light is shown in Fig. 2 (1), Ne orange light is shown in Fig. 2 (2) and Xe infrared light is shown in Fig. 2 (3).

A presence of infrared light emitted from Xe gas is recognized in the experiment.

And a IR-cut filter is used for removing an unnecessary light in observing a luminescence of phosphor light as shown in Fig. 2 (1).

Accordingly, a state for cutting infrared light emitted from PDP is made in the experiment.

(3) A difference between the present invention and the prior art is disclosed in the paper. However, it only discloses that an IR-cut filter is used for removing an unnecessary light in observing a luminescence of phosphor light as shown in Fig. 2 (1).

And it only discloses that infrared light emitted from 5% Xe gas is observed as shown in Fig. 2 (3).

However, it does not disclose or suggest a problem caused by infrared light, such as malfunction of near infrared remote control for domestic electric appliances in the home. Accordingly it does not disclose at all a necessity of a cut filter of near infrared.

Needless to say, it does not disclose a concrete structure of PDP for cutting near infrared, such as a protection plate and a construction of a casing as in claim 6 and a protection plate at a predetermined distance from a display panel as in claim 16.

(4) Distinction

As explained in the above, though a IR-cut filter is used for spectrum observation in the paper, it is not understood to constitute a necessity of an IR-cut filter in a PDP product.

IR-cut filter is only used for observing a luminescence of phosphor light in the paper.

And it is not recognized to be a problem caused by infrared light, such as malfunction of near infrared remote control for domestic electric appliances in the home, and a necessity for solving of the problem by removing near infrared emitted from Xe gas.

As such, the present invention is not obvious, based on prior art in the paper.